

WHAT IS CLAIMED IS:

1. An information processing apparatus for forming print data to be printed by a printing apparatus, comprising:

5 obtaining means for obtaining draw information based on a print document which is formed by an application;

10 setting means for setting print set information at the time of executing a printing process of the print data by said printing apparatus; and

15 estimating means for estimating a print time which is required for the printing process on the basis of the draw information obtained by said obtaining means and the print set information set by said setting means.

2. An apparatus according to claim 1, wherein said obtaining means obtains the draw information including an ID of every object constructing said print document before the execution of the print through an expansion API provided between a printer driver and said application.

25 3. An apparatus according to claim 1, wherein said print set information is information regarding print quality in said print data.

4. An apparatus according to claim 1, wherein said print set information includes information regarding print quality in said print data and information regarding a print layout.

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5. An apparatus according to claim 1, further comprising:

informing means for informing the user of the print time which is estimated by said estimating means before the print data is formed; and

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forming means for forming the print data based on said print document after the print time was informed by said informing means.

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6. An apparatus according to claim 5, wherein said informing means provides said print time and a user interface for promoting an input of an instruction to execute the printing process which requires said print time.

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7. An apparatus according to claim 6, wherein the user interface which is informed by said informing means accepts the input of the instruction for canceling the execution of the printing process which requires said print time.

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8. An apparatus according to claim 1, wherein

said setting means sets a print profile obtained by collecting a plurality of print set information at the time of executing the printing process of the print data by said printing apparatus, and

5 said estimating means estimates the print time which is required for the printing process every plural print profiles which are set by said setting means.

9. An apparatus according to claim 1, further
10 comprising transmitting means for transmitting said print data to said printing apparatus through a network.

10. An information processing method of forming
15 print data to be printed by a printing apparatus, comprising:

an obtaining step of obtaining draw information based on a print document which is formed by an application;

20 a setting step of setting print set information at the time of executing a printing process of the print data by said printing apparatus; and

an estimating step of estimating a print time which is required for the printing process on the basis
25 of the draw information obtained by said obtaining step and the print set information set by said setting step.

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application;
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application;

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of data processing apparatus, and

which is required for the printing process on the basis of the draw information obtained by said obtaining step and the print set information set by said setting step.

5 13. An information processing apparatus for forming print data to be printed by a printing apparatus, comprising:

 obtaining means for obtaining draw information based on a print document which is formed by an
10 application;

 estimating means for analyzing the draw information which is obtained by said obtaining means and estimating a print time which is required for a printing process of said draw information for a
15 plurality of print modes; and

 display control means for allowing the print time estimated by said estimating means to be displayed in correspondence to each of said print modes.

20 14. An apparatus according to claim 13, wherein said display control means allows a button for displaying a preview image for confirming an image quality to be displayed in correspondence to said plurality of print mode.

25 15. An apparatus according to claim 13, further comprising discriminating means for analyzing the draw

information which is obtained by said obtaining means
and discriminating a proper print mode from said
plurality of print modes,

and wherein said display control means allows a
5 message for recommending the print mode discriminated
by said discriminating means to be displayed.

16. An apparatus according to claim 15, wherein
said discriminating means discriminates the proper
10 print mode on the basis of a ratio of color data of the
draw information.